



Atty Dkt No. 8325-0015

COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 1 of 11

In th Application of WOLFFE et al.

Confirmation No. 9055

Serial No.: 09/844,501

Art Unit:1645

Filing Date: April 27, 2001

Examiner: unassigned

Title: DATABASES OF REGULATORY SEQUENCES; METHODS OF MAKING AND USING SAME

U.S. PATENT DOCUMENTS

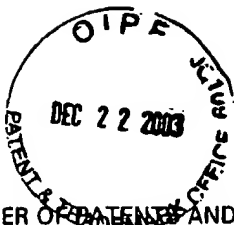
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<input checked="" type="checkbox"/>	AA-1	5,176,996	January 5, 1993	Hogan et al.			
<input checked="" type="checkbox"/>	AB-1	5,422,251	June 6, 1995	Fresco			
<input checked="" type="checkbox"/>	AC-1	5,436,142	July 25, 1995	Wigler et al.			
<input checked="" type="checkbox"/>	AD-1	5,501,964	March 26, 1996	Wigler et al.			
<input checked="" type="checkbox"/>	AE-1	5,525,471	June 11, 1996	Zeng			
<input checked="" type="checkbox"/>	AF-1	5,585,245	December 17, 1996	Johnsson et al.			
<input checked="" type="checkbox"/>	AG-1	5,695,937	December 9, 1997	Kinzler et al.			
<input checked="" type="checkbox"/>	AH-1	5,766,891	June 16, 1998	Shuman			
<input checked="" type="checkbox"/>	AI-1	5,789,538	August 4, 1998	Rebar et al.			
<input checked="" type="checkbox"/>	AJ-1	5,866,330	February 2, 1999	Kinzler et al.			
<input checked="" type="checkbox"/>	AK-1	5,935,830	August 10, 1999	Meyer, Jr., et al.			
<input checked="" type="checkbox"/>	AL-1	5,958,738	September 28, 1999	Lindemann et al.			
<input checked="" type="checkbox"/>	AM-1	5,998,140	December 7, 1999	Dervan et al.			
<input checked="" type="checkbox"/>	AN-1	6,007,988	December 28, 1999	Choo et al.			
<input checked="" type="checkbox"/>	AO-1	6,013,453	January 11, 2000	Choo et al.			
<input checked="" type="checkbox"/>	AP-1	6,023,659	February 8, 2000	Seilhamer et al.			

Examiner:

Date Considered:

4/9/04

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Title: DATABASES OF REGULATORY SEQUENCES; METHODS OF MAKING AND USING SAME

<u>N</u>	AQ-1	6,090,947	July 18, 2000	Dervan et al.	<u>1</u>	
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FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation YES	NO
<u>N</u>	AR-1	WO 93/06121 ✓	April 1, 1993	PCT				
	AS-1	WO 94/08051 ✓	April 14, 1994	PCT				
	AT-1	WO 95/12608 ✓	May 11, 1995	PCT				
	AU-1	WO 95/19431 ✓	July 20, 1995	PCT				
	AV-1	WO 95/30642 ✓	November 16, 1995	PCT				
	AW-1	WO 95/35503 ✓	December 28, 1995	PCT				
	AX-1	WO 98/44350 ✓	October 8, 1998	PCT				
	AY-1	WO 98/53057 ✓	November 26, 1998	PCT				
	AZ-1	WO 98/53058 ✓	November 26, 1998	PCT				
	BA-1	WO 98/53059 ✓	November 26, 1998	PCT				
	BB-1	WO 98/53060 ✓	November 26, 1998	PCT				
	BC-1	WO 98/54311 ✓	December 3, 1998	PCT				
<u>✓</u>	BD-1	WO 99/45132 ✓	September 10, 1999	PCT				
<u>N</u>	BE-1	WO 99/47656 ✓	September 23, 1999	PCT				

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✓	BF-1	WO 99/48909 ✓	September 30, 1999	PCT					
	BG-1	WO 00/23464 ✓	April 27, 2000	PCT					
	BH-1	WO 00/41566 ✓	July 20, 2000	PCT					
	BI-1	WO 00/42219 ✓	July 20, 2000	PCT					
✓	BJ-1	WO 01/68807 ✓	September 20, 2001	PCT					
	BK-1	DE 198 53 398C1 ✓	March 16, 2000	EPO					
✓	BL-1	WO 00/31294 ✓	June 2, 2000	PCT					

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
✓	BM-1	Altschul et al., "Basic Local Alignment Search Tool," <i>Journal Molecular Biol.</i> <u>215</u> :403-410 (1990)
✓	BN-1	Antequera et al., "Specific Protection of Methylated CpGs In Mammalian Nuclei," <i>Cell</i> <u>58</u> :509-517 (1989)
✓	BO-1	Bird, "The Essentials of DNA Methylation," <i>Cell</i> <u>70</u> :5-8 (1992) ✓
✓	BP-1	Bird et al., "Methylation-Induced Repression Belts, Braces, and Chromatin," <i>Cell</i> <u>99</u> :451-454 (1999) ✓

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<u>N</u>	BQ-1	Bird, A.P., "CPG Rich Islands and the Function of DNA Methylation," <i>Nature</i> <u>321</u> : 209-213 (1986) ✓
	BR-1	Bitko & Barik, "Persistent Activation of Re1A by Respiratory Syncytial Virus Involves Protein Kinase C, Underphosphorylated IκBβ, and Sequestration of Protein Phosphatase 2A by the Viral Phosphoprotein," <i>Journal of Virology</i> <u>72</u> (7):5610-5618 (1998)
	BS-1	Bringmann et al., "Antibodies Specific for N ⁶ -Methyladenosine React with Intact snRNPs U2 and U4/U6," <i>FEBS Lett.</i> <u>213</u> (2):309-315 (1987) ✓
	BT-1	Brown, (ed.) <i>Essential Molecular Biology: A Practical Approach</i> , IRL Press, Vol. 1:147-148 (1991)
	BU-1	Cartwright et al., "Cleavage of Chromatin with Methidiumpropyl-EDTA-iron(III)," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>80</u> :3213-3217 (1983) ✓
	BV-1	Chern et al., "The Regulator of MAT2(ROM2) Proteins Binds to Early Maturation Promoters and Represses P _v ALF-Activated Transcription," <i>Plant Cell</i> <u>8</u> :305-321 (1996) ✓
	BW-1	Cho et al., "Analysis of the C-Terminal Region of <i>Arabidopsis Thaliana</i> APETALA1 as a Transcription Activation Domain," <i>Plant Mol. Biol.</i> <u>40</u> :419-429 (1999) ✓
	BX-1	Choo et al., "Selection of DNA Binding Sites for Zinc Fingers Using Rationally Randomized DNA Reveals Coded Interactions," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :11168-11172 (1994) ✓
<u>✓</u>	BY-1	Collingwood et al., "Nuclear Receptors: Coactivators, Corepressors and Chromatin Remodeling in the Control of Transcription," <i>J. Mol. Endocrinol.</i> <u>23</u> :255-275 (1999)
<u>N</u>	BZ-1	Cross et al., "Purification of CPG Islands Using a Methylated DNA Binding Column," <i>Nature Genetics</i> <u>5</u> (3):236-244 (1994) ✓

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Exam. Init.	Ref. Desig.	Description
	CA-1	Doyle & Hunt, "Reduced Nuclear Factor kB (p65) Expression in Rat Primary Sensory Neurons After Peripheral Nerve Injury," <i>Neuroreport</i> <u>8</u> :2937-2942 (1997) ✓
	CB-1	Fields et al., "A Novel Genetic System to Detect Protein-Protein Interactions," <i>Nature</i> <u>340</u> :245-246 (1989) ✓
	CC-1	Frommer & Starlinger, "DNase I Hypersensitive Sites in the 5'-Region of the Maize <i>Shrunken</i> Gene in Nuclei from Different Organs," <i>Mol. Gen. Genet.</i> <u>212</u> :351-359 (1988) ✓
	CD-1	Gilmour et al., "Detecting Protein-DNA Interactions <i>in vivo</i> : Distribution of RNA Polymerase on Specific Bacterial Genes," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>81</u> :4275-4279 (1984) ✓
	CE-1	Goff et al., "Identification of Functional Domains in the Maize Transcriptional Activator C1: Comparison of Wild-Type and Dominant Inhibitor Proteins," <i>Genes Dev.</i> <u>5</u> :298-309 (1991) ✓
	CF-1	Gong et al., "A Constitutively Expressed Myc-Like Gene Involved in Anthocyanin Biosynthesis form <i>Perilla Frutescens</i> : Molecular Characterization, Heterologous Expression in Transgenic Plants and Transactivation in Yeast Cells," <i>Plant Molecular Biology</i> <u>41</u> :33-44 (1999) ✓
	CG-1	Greene et al., "Sequence of the Bacteriophage SP01 Gene Coding for Transcription Factor 1, a Viral Homologue of the Bacterial Type II DNA-Binding Proteins," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>81</u> :7031-7035 (1984) ✓
	CH-1	Gross & Garrard, "Nuclease Hypersensitive Sites in Chromatin," <i>Annual Review of Biochemistry</i> <u>57</u> :159-197 (1988) ✓
	CI-1	Greisman et al., "A General Strategy for Selecting High-Affinity Zinc Finger Proteins for Diverse DNA Target Sit s," <i>Science</i> <u>275</u> :657-661 (1997) ✓

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Exam. Init.	Ref. Desig.	Description
	CJ-1	Hagmann et al., "The VP16 Paradox: Herpes Simplex Virus VP16 Contains a Long-Range Activation Domain but Within the Natural Multiprotein Complex Activates Only from Promoter-Proximal Positions," <i>Journal of Virology</i> <u>71</u> (8):5952-5962 (1997) ✓
	CK-1	Hayes, "Chemical Probes of DNA Structure in Chromatin," <i>Chemistry & Biology</i> <u>2</u> :127-135 (1995) ✓
	CL-1	Hendrich et al., "Identification and Characterization of a Family of Mammalian Methyl-CpG Binding Proteins," <i>Molecular and Cellular Biology</i> <u>18</u> (11):6538-6547 (1998) ✓
	CM-1	Hertzberg et al., "Cleavage of DNA with Methidiumpropyl-EDTA-Iron(III): Reaction Conditions and Product Analyses," <i>Biochemistry</i> <u>23</u> :3934-3945 (1984) ✓
	CN-1	Hibino et al., "Involvement of DNA Methylation in Binding of a Highly Reptitive DNA Component to Nuclear Scaffold Proteins from Rat Liver," <i>Biochemical and Biophysical Research Communications</i> <u>252</u> :296-301 (1998) ✓
	CO-1	Hobo et al., "A bZIP Factor, TRAB1, Interacts with VP1 and Mediates Absciscic Acid-Induced Transcription," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>96</u> (26):15348-15353 (1999) ✓
	CP-1	Hoopes et al., "Studies on the Selectivity of DNA Precipitation by Spermine," <i>Nucleic Acids Res.</i> <u>9</u> (20):5493-5504 (1981) ✓
	CQ-1	Iyer et al., "The Transcriptional Program in the Response of Human Fibroblasts to Serum," <i>Science</i> <u>283</u> :83-87 (1999) ✓
	CR-1	Jamieson et al., "In Vitro Selection of Zinc Fingers with Altered DNA-Binding Specificity," <i>Biochemistry</i> <u>33</u> (19):5689-5695 (1994) ✓
	CS-1	Jamieson et al., "A Zinc Finger Directory for High-Affinity DNA Recognition," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>93</u> :12834-12839 (1996) ✓

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	CT-1	Jones et al., "Cancer Epigenetics Comes of Age," <i>Nature Genet.</i> <u>21</u> :163-167 (1999) ✓
	CU-1	Joung et al., "A Bacterial Two-Hybrid Selection System for Studying Protein-DNA and Protein-Protein Interactions," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>97</u> :7382-7387 (2000) ✓
	CV-1	Kimura et al., "On the DNA Binding Protein II From <i>Bacillus Stearothermophilus</i> ," <i>The Journal of Biological Chemistry</i> <u>258</u> (6):4007-4011 (1983) ✓
	CW-1	Kladde et al., "Direct Study of DNA-Protein Interactions in Repressed and Active Chromatin in Living Cells," <i>EMBO J.</i> <u>15</u> (22):6290-6300 (1996) ✓
	CX-1	Knoepfler et al., "Sin Meets NuRD and Other Tails of Repression," <i>Cell</i> <u>99</u> :447-450 (1999) ✓
	CY-1	Lemon et al., "Nuclear Receptor Cofactors as Chromatin Remodelers," <i>Curr. Opin. Genet. Dev.</i> <u>9</u> :499-504 (1999) ✓
	CZ-1	Leo et al., "The SRC Family of Nuclear Receptor Coactivators," <i>Gene</i> <u>245</u> :1-11 (2000) ✓
	DA-1	Lewin, <i>Genes VII</i> , Oxford University Press, Chapter 4 (page 106) and Chapter 21 (pp 668 & 678) (2000) ✓
	DB-1	Linder et al., "Pharmacogenetics: a Laboratory Tool for Optimizing Therapeutic Efficiency," <i>Clinical Chemistry</i> <u>43</u> (2):254-266 (1997) ✓
	DC-1	Maemura et al., "Generation of a Dominant-negative Mutant of Endothelial PAS Domain Protein 1 by Deletion of a Potent C-terminal Transactivation Domain," <i>The Journal Biological Chemistry</i> <u>274</u> (44):31565-31570 (1999) ✓
	DD-1	Malik et al., "Transcriptional Regulation Through Mediator-like Coactivators in Yeast and Metazoan Cells," <i>Trends Biochem. Sci.</i> <u>25</u> :277-283 (2000) ✓

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	DE-1	Manteuffel-Cymborowska, "Nuclear Receptors, Their Coactivators and Modulation of Transcription," <i>Acta Biochim. Pol.</i> <u>46</u> (1):77-89 (1999) ✓
	DF-1	Margolin et al., "Krüppel-Associated Boxes are Potent Transcriptional Repression Domains," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :4509-4513 (1994) ✓
	DG-1	Maxam et al., "Sequencing End-Labeled DNA With Base-Specific Chemical Cleavages," <i>Meth. Enzymology</i> <u>65</u> , (L. Grossman & K. Moldave, eds.) Academic Press, New York, pp. 499-560 (1980) ✓
	DH-1	McKenna et al., "Nuclear Receptor Coactivators: Multiple Enzymes, Multiple Complexes, Multiple Functions," <i>Journal of Steroid Biochemistry and Molecular Biology</i> <u>69</u> :3-12 (1999) ✓
	DI-1	Meyer, P., "Transcriptional Transgene Silencing and Chromatin Components," <i>Plant Molecular Biology</i> <u>43</u> :221-234 (2000) ✓
	DJ-1	Ogawa et al., "Rice Gibberellin-Insensitive Gene Homolog, <i>OsGAI</i> , Encodes a Nuclear-Localized Protein Capable of Gene Activation at Transcriptional Level," <i>Gene</i> <u>245</u> :21-29 (2000) ✓
	DK-1	Okanami et al., "HALF-1, a bZIP-type Protein, Interacting with the Wheat Transcription Factor HBP-1a Contains a Novel Transcriptional Activation Domain," <i>Genes to Cells</i> <u>1</u> :87-99 (1996) ✓
	DL-1	Pelling et al., "A Human Genomic Library Enriched in Transcriptionally Active Sequences (aDNA Library)," <i>Genome Res.</i> <u>10</u> :874-886 (2000) ✓
	DM-1	Pengue et al., "Repression of Transcriptional Activity at a Distance by the Evolutionarily Conserved KRAB Domain Present in a Subfamily of Zinc Finger Proteins," <i>Nuc. Acids Res.</i> <u>22</u> (15):2908-2914 (1994) ✓

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<u>N</u>	DN-1	Rebar et al., "Zinc Finger Phage: Affinity Selection of Fingers with New DNA-Binding Specificities," <i>Science</i> <u>263</u> :671-673 (1994) ✓
	DO1	Rice et al., "Recognition of Native DNA Methylation by the <i>PvuII</i> Restriction Endonuclease," <i>Nucleic Acids Research</i> <u>28</u> (16):3143-3150 (2000) ✓
	DP-1	Robertson et al., "DNA Methylation: Past, Present and Future Directions," <i>Carcinogenesis</i> <u>21</u> :461-467(2000) ✓
	DQ-1	Robertson et al., "DNMT1 Forms a Complex with Rb, E2F1 and HDAC1 and Represses Transcription From E2F-Responsive Promoters," <i>Nature Genetics</i> <u>25</u> :338-342 (2000)
	DR-1	Robyr et al., "Nuclear Hormone Receptor Coregulators in Action: Diversity for Shared Tasks," <i>Molecular Endocrinology</i> <u>14</u> :329-347 (2000) ✓
	DS-1	Rouviere-Yaniv et al., "Localization of the HU Protein on the <i>Escherichia coli</i> Nucleoid," <i>Cold Spring Harbor Symp. Quant. Biol.</i> <u>XLII</u> :439-447 (1977) ✓
	DT-1	Sambrook et al., <i>Molecular Cloning: a Laboratory Manual, 2nd Edition</i> , Cold Spring Harbor Laboratory Press, 13.21-13.33 (1989) ✓
	DU-1	Seipal et al., "Different Activation Domains Stimulate Transcription From Remote ('enhancer') and Proximal ('promoter') Positions," <i>EMBO J.</i> <u>11</u> (13):4961-4968 (1992)
	DV-1	Shiraishi et al., "Preferential Isolation of DNA Fragments Associated With CpG Islands," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>92</u> :4229-4233 (1995) ✓
	DW-1	Simpson, "In vivo Methods to Analyze Chromatin Structure," <i>Current Opinions in Genetics & Development</i> <u>9</u> :225-229 (1999) ✓
<u>N</u>	DX-1	Solomon et al., "Formaldehyde-Mediated DNA-Protein Crosslinking: A Probe for <i>in vivo</i> Chromatin Structures," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>82</u> :6470-6474 (1985) ✓

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N	DY-1	Solomon et al., "Mapping Protein-DNA Interactions <i>In Vivo</i> with Formaldehyde: Evidence that Histone H4 is Retained on a Highly Transcribed Gene," <i>Cell</i> <u>53</u> :937-947 (1988) ✓
	DZ-1	Sprenger-Haussels et al., "Transactivation Properties of Parsley Proline-Rich bZIP Transcription Factors," <i>The Plant Journal</i> <u>22</u> (1):1-8 (2000) ✓
	EA-1	Tanaka et al., "3-Å Resolution Structure of a Protein with Histone-Like Properties in Prokaryotes," <i>Nature</i> <u>310</u> :376-381 (1984) ✓
	EB-1	Tazi and Bird, "Alternative Chromatin Structure at CpG Islands," <i>Cell</i> <u>60</u> :909-920 (1990) ✓
	EC-1	Thiesen, "Multiple Genes Encoding Zinc Finger Domains Are Expressed in Human T-Cells," <i>New Biologist</i> <u>2</u> :363-374 (1990) ✓
	ED-1	Tian et al., "Endothelial PAS Domain Protein 1 (EPAS1), a Transcription Factor Selectively Expressed in Endothelial Cells," <i>Genes & Development</i> <u>11</u> :72-82 (1997) ✓
	EE-1	Torchia et al., "Co-Activators and Co-Repressors in the Integration of Transcriptional Responses," <i>Curr. Opin. Cell Biol.</i> <u>10</u> :373-383 (1998) ✓
	EF-1	Tullius et al., "Hydroxyl Radical Footprinting: A High-Resolution Method for Mapping Protein-DNA Contacts," <i>Methods in Enzymology</i> <u>155</u> :(J. Ableson & M. Simon, eds.) Academic Press, San Diego, pp. 537-558 (1987) ✓
✓	EG-1	Tyler et al., "The "Dark Side" of Chromatin Remodeling: Repressive Effects on Transcription," <i>Cell</i> <u>99</u> :443-446 (1999) ✓
N	EH-1	Ulmasov et al., "Activation and Repression of Transcription by Auxin-Response Factors," <i>Proc. Natl. Acad. Sci. USA</i> <u>96</u> :5844-5849 (1999) ✓

Examiner:

Date Considered:

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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LIST OF PATENTS AND PUBLICATIONS
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(Use several sheets if necessary)
Sheet 11 of 11

In the Application of WOLFFE et al.

Confirmation No. 9055

S rial No.: 09/844,501

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Title: DATABASES OF REGULATORY SEQUENCES; METHODS OF MAKING AND USING SAME

Exam. Init.	Ref. Desig.	Description
N	EI-1	van Steensel and Henikoff, "Identification of <i>In Vivo</i> DNA Targets of Chromatin Proteins Using Tethered Dam Methyltransferase," <i>Nature Biotechnology</i> <u>18</u> :424-428 (2000) ✓
	EJ-1	Wellinger et al., "In Vivo Mapping of Nucleosomes Using Psoralen-DNA Crosslinking Primer Extension," <i>Methods in Molecular Biology</i> <u>119</u> :161-173 (1999) ✓
	EK-1	Wines et al., "Introduction of a DNA Methyltransferase into <i>Drosophila</i> to Probe Chromatin Structure <i>in vivo</i> ," <i>Chromasoma</i> <u>104</u> :332-340 (1996) ✓
	EL-1	Wingender et al., "TRANSFAC, TRRD and COMPEL: Towards a Federated Database System on Transcriptional Regulation," <i>Nucleic Acids Res.</i> <u>25</u> (1):265-268 (1997) ✓
	EM-1	Witzgall et al., "The Krüppel-Associated Box-A (KRAB-A) Domain of Zinc Finger Proteins Mediates Transcriptional Repression," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>91</u> :4514-4518 (1994) ✓
	EN-1	Wolffe et al., "Targeting Chromatin Disruption: Transcription Regulators That Acetylate Histones," <i>Cell</i> <u>84</u> :817-819 (1996) ✓
	EO-1	Wolffe et al., "Creating Molecular Clues to Uncover Gene Function," <i>Nature Biotechnology</i> <u>18</u> (4):379-380 (2000) ✓
✓	EP-1	Wu et al., "Functional Analysis of HD2 Histone Deacetylase Homologues in <i>Arabidopsis Thaliana</i> ," <i>The Plant Journal</i> <u>22</u> (1):19-27 (2000) ✓
N	EQ-1	Xu et al., "Cytosine Methylation Targetted to Pre-Determined Sequences," <i>Nature Genetics</i> <u>17</u> (4):376-378 (1997) ✓

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